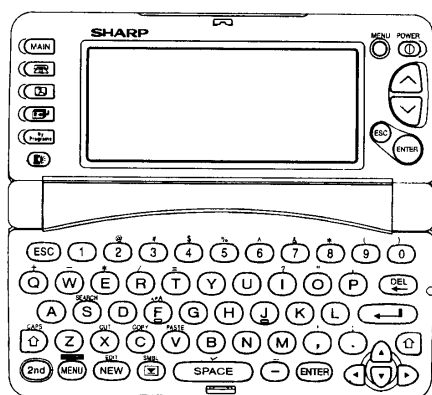


SHARP SERVICE MANUAL

CODE: 00ZOZ730SP//E



MODEL OZ-730PC/750PC ZQ-700PC/750PC

DISPLAY SECTION

ELEMENT: FSTN LCD
DISPLAY: 239 × 80 dot matrix
liquid crystal display

LSI

CPU: T5L55

POWER SUPPLY

AC: X DC: O

Main power supply: 3 VDC Alkaline batteries (LR6 (size "AA") × 2)

POWER CONSUMPTION

0.33 W

DIMENSIONS

Open: 162 (W) × 145 (D) × 10.9 (H) mm.

Closed: 162 (W) × 81.5 (D) × 19.9 (H) mm.

Weight

OZ-730/ZQ-700: 220g (including batteries)

OZ-750/ZQ-750: 220g (including batteries)

Operating temperatures

0°C to 40°C (32° to 104°F)

Peripherals and data transfer interface

IR transfer Up to a distance of approx. 80 cm. (only OZ-750/ZQ-750 Organizers has this function)

Cable jack 4-pin connector

Electronic Organizer unit section

Applications Calendar, Schedule, To Do, Birthday/Anniversary, Telephone, Memo, Expense, Expense Report, Clock, Calculation, Conversion, Add-on

Memory capacity OZ-730 1.5MB Flash memory
ZQ-700: User area approx. 896KB for data storage, 320KB for Add-on programs.

OZ-750 2.5MB Flash memory
ZQ-750: User area approx. 1,920KB for data storage, 320KB for Add-on programs.

Application capacity OZ-730 9,000 entries
ZQ-700: (Schedule 2,500, Tel 2,500, Memo 2,500, To Do 1,000, Expense 500) in total

OZ-750 20,000 entries
ZQ-750: (Schedule 5,000, Tel 5,000, Memo 5,000, To Do 3,000, Expense 2,000) in total

These capacities assume the following average entry sizes.

Schedule: 22 characters/entry

Tel: 8 characters/entry in the name field

10 characters/entry in number field

Memo: 12 characters/entry in title field
18 characters/entry in body field
To Do: 30 characters/entry in description field
Expense: 6 characters/entry in Amount field
4 characters/entry in Payment Type field
11 characters/entry in Memo field

* Maximum storage in each application: 5,000 entries

Maximum data size per entry Approx. 2,000 bytes (including separator/terminator)

User interfaces Keyboard

Other features Secret function, data, transfer, search function, et al.

Functions Addition, subtraction, multiplication, division, constant, memory calculation, conversion calculation.

Clock

Crystal oscillation frequency: 32,768 Hz

Accuracy: Average variance per day, 2.0 seconds (at 25°C/77°F)

Display information: year, month, day, day of the week, hours, minutes, A.M./P.M., city names

Time system: 12-hour and 24-hour

Other function: Display of date and time for various cities around the world. Enable/disable daylight saving time.

Battery life

Battery life

Battery life may vary depending on usage.

* Approx. 120 hours. Continuous display at an ambient temperature of 25°C (77°F)

* Approx. 100 hours. Searching data for 5 minutes and display on for 55 minutes per hour, at an ambient temperature of 25°C (77°F)

* Approx. 90 hours. Using the Backlight for 2 minutes per hourly use an searching for 5 minutes per hourly use at and ambient temperature of 25°C (77°F)

* Please be reminded that the old batteries in the Organizer should be exchanged with new one at least once a year.

Backlight life

Backlight life may vary depending on usage.

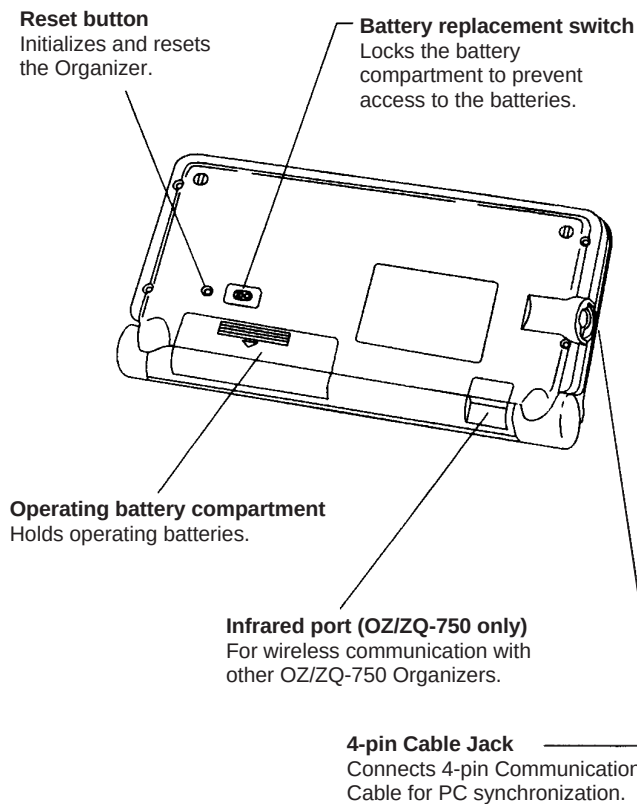
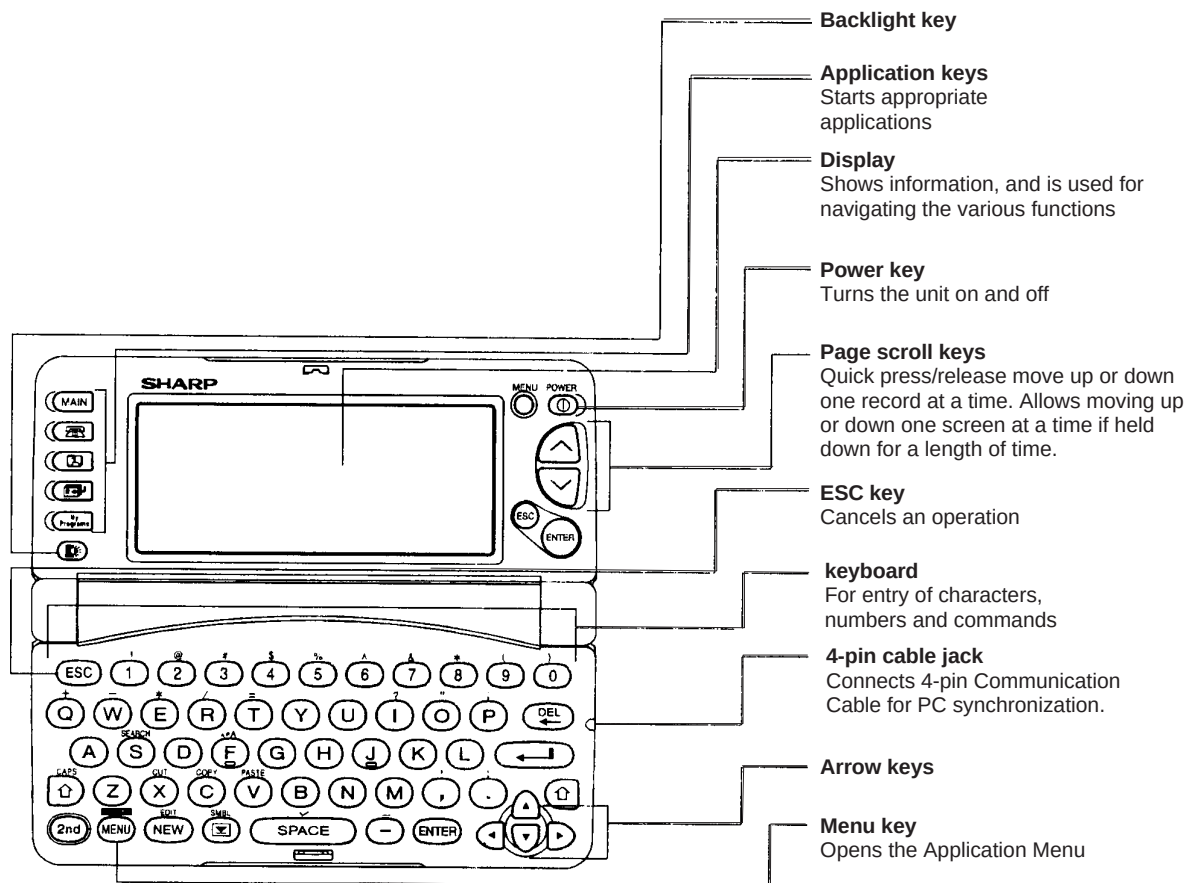
If the backlight is on for 10 minutes per day (eg. 1 minute 10 times a day), the brightness will be reduced by half after 10* years (at an ambient temperature of 25°C and 65% humidity).

* This figure may vary depending on the surrounding environment.

Accessories

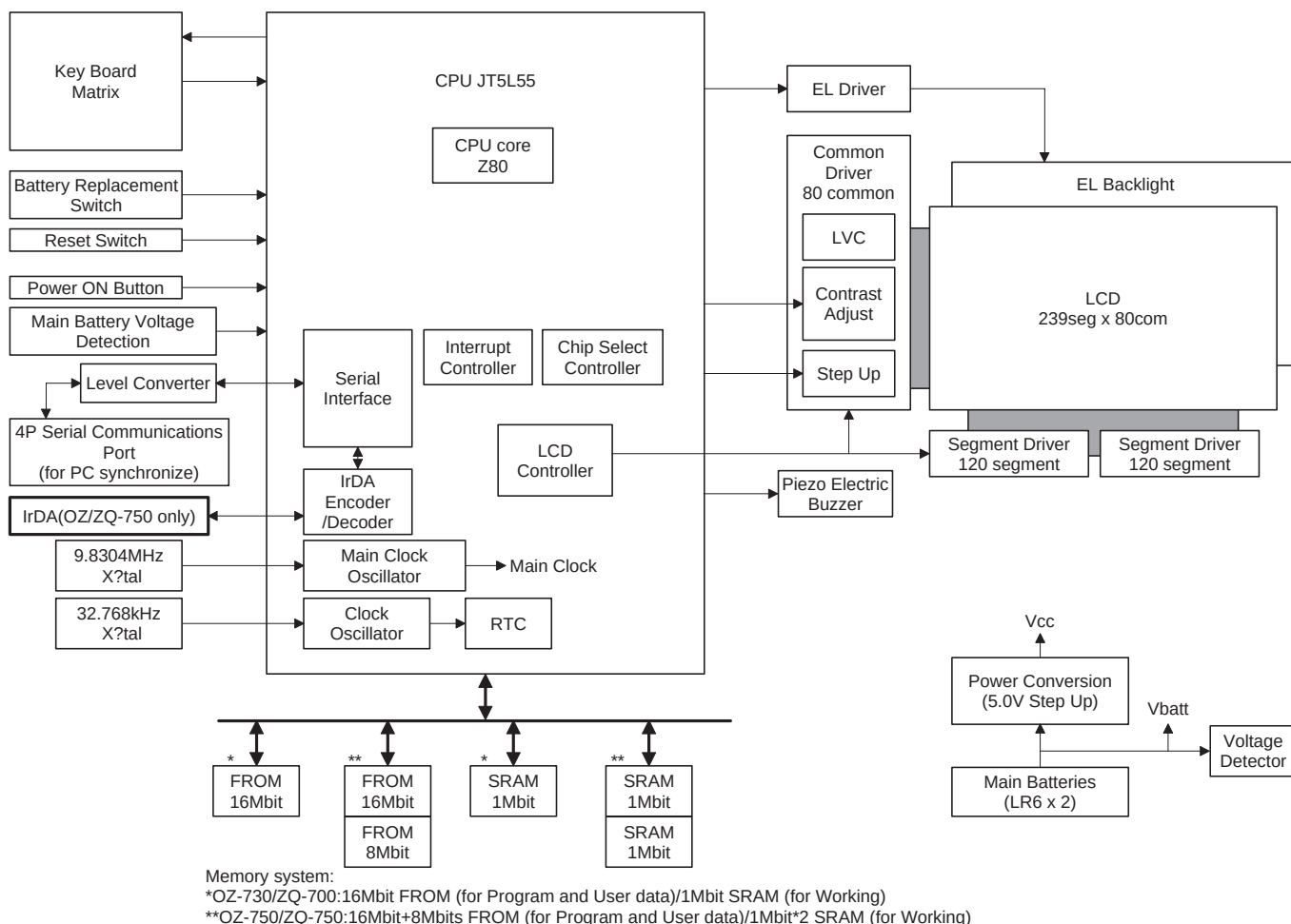
Alkaline batteries LR6 (size "AA") × 2, Operation manual, Quick Start Guide, Docking module, Software CD-ROM

1. KEY LAYOUT AND FUNCTIONS



2. HARDWARE DESCRIPTION

1. Block diagram



2-1. CPU (T5L55) : COB (Bare Chip) is used

1) Features

- Microcontroller T5L55 is a revised version of T6B31
- Added/revised functions of T5L55 compare to T6B31 are follows.
 1. IrDA1.0 encoder/decoder circuit is integrated.
 2. 120 segment LCD driver controller function is added.
 3. LCD refresh frequency is revised.
 4. Some gate circuits such as the interrupt circuit, the reset circuit and the latch circuit are added.
- The chip has 100 pads. The pad pitch is 150um, and is as same as T6B31.
- Operating voltage: $V_{DD} = +4.5 \sim +5.5V$

2-2. LCD driver (JT6J14-AS) : COB (Bare Chip) is used

The JT6J14-AS is an 120-channel-output column driver for an STN dot matrix LCD. The JT6J14-AS features 28-V LCD drive voltage and a 10-MHz maximum operating frequency. The JT6J14-AS is able to drive LCD panels with a duty ratio of up to 1/160.

1) Features

- Display duty application: to 1/160
- LCD drive signal: 120
- Data transfer: 4-bit bidirectional
- Maximum Operating frequency: 10 MHz ($V_{DD} = 4.5 V$), 6.5 MHz ($V_{DD} = 2.7 V$)
- LCD drive voltage: 11 to 28 V (maximum drive voltage = 30 V)
- Power supply Operating voltage: 2.7 to 5.5 V
- Operating temperature: -20 to $75^{\circ}C$
- LCD drive output resistance: 2.2 k Ω (max) (12.8 V, 1/7 to 1/14 bias)
- Display-off function: When /DSPOF is L, all LCD drive outputs (O1 to O120) remain at the V_{SS}/V_5 level.
- Low power consumption: Cascade connections and auto enable transfer functions are available.

2-3. LCD Driver (JT6J15-AS) : COB (Bare Chip) is used

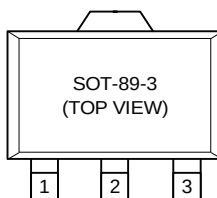
The JT6J15-AS is an 80-channel-output row driver for an STN dot matrix LCD. The JT6J15-AS features 28V-LCD drive voltage. The JT6J15-AS is able to drive LCD panels with a duty ratio of up to 1/160.

1) Features

- Display duty application: to 1/160
- LCD drive signal: 80
- Data transfer: Two different styles of 1-bit bi-directional can be selected
① COM 80 ← COM 1
② COM 80 → COM 1
- LCD drive voltage: 11 to 28 V (maximum drive voltage = 30 V)
- Operating voltage: 2.7 to 5.5 V
- Operating temperature: -20 to 75°C
- LCD drive output resistance: 1.5 kΩ (max)
($V_o = 12.8$ V, 1/7 to 1/14 bias)
- Display-off function: When /DSPOF is L, all LCD drive outputs (O1 to O80) remain at the V_{ss}/V_5 level.
- LCD drive output timing: Change on falling edge or rising edge of LP (selected by TSW)

2-4. DC-DC conector (XC 6372A)

1) Pin Assignment



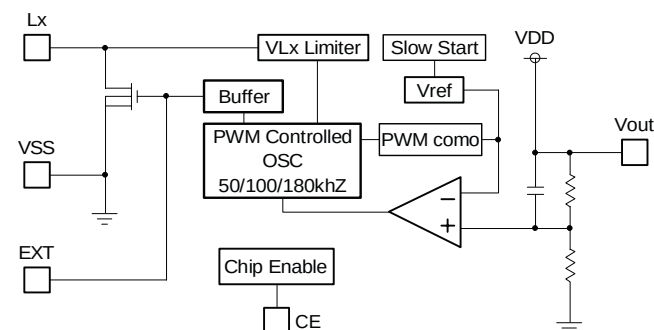
2) Pin Description

XC6372A

PIN NUMBER	PIN NAME	FUNCTION
XC6372A		
1	V _{SS}	GND
2	V _{OUT}	Output voltage monitor / IC internal power supply
3	L _x	Switch
—	EXT	External switch transistor drive

3) Block Diagram

XC6372A



V_{DD} is internally connected to the V_{OUT} pin.

2-5. Static RAM

1) OUTLINE

The TC551001CP is a 131,072-word × 8-bit, 5-V driven asynchronous high-speed CMOS static RAM. The power consumption is 5mA/MHz (standard) in operation and the access time is a maximum of 5ns; that is, the use of a new circuit has turned high speed and low power consumption into reality. In addition, the power consumption is only 1μA in standby state and data can be backed up by the battery.

2) Features

- Low power consumption: 27.5 mW/MHz (standard) in operation
- 5-V power supply: 5V ±10%
- Data retaining power supply voltage: 2V ~ 5.5V
- Output buffer control: $\overline{OE}$
- I/O complete TTL compatible
- Standby current (max):

	TC551001CP/CF/CFT/CTR/CST/CSR	
	-55, -70, -85	-55L, -70L, -85L
5.5V	100 μA	20 μA
3.0V	50 μA	10 μA

- Access time (max)

	TC551001CP/CF/CFT/CTR/CST/CSR		
	-55, -55L	-70, -70L	-85, -85L
Access time	55ns	70ns	85ns
$\overline{CE1}$ access time	55ns	70ns	85ns
$\overline{CE2}$ access time	55ns	70ns	85ns
$\overline{OE}$ access time	30ns	35ns	45ns

- Package

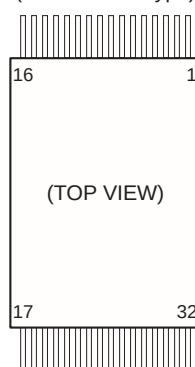
TSOP I 32-P-0820-0.50 (CFT) (Mass:0.34 standard)

3) Pin configurations

- 32 pin TSOP

(Normal bend type)

(Normal bend type)



4) Pin names

A0 ~ A16	Address input
R/W	Read/write input
$\overline{OE}$	Output enable input
$\overline{CE1}$, $\overline{CE2}$	Chip enable input
I/O1 ~ I/O8	Data I/O
V_{DD}	Power supply terminal (+5V)
GND	Ground
N.C.	Not used

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pin name	A11	A9	A8	A13	R/W	CE2	A15	V _{BD}	N.C.	A16	A14	A12	A7	A6	A5	A4
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Pin name	A3	A2	A1	A0	I/O1	I/O2	I/O3	GND	I/O4	I/O5	I/O6	I/O7	I/O8	$\overline{\text{CE1}}$	A10	$\overline{\text{OE}}$

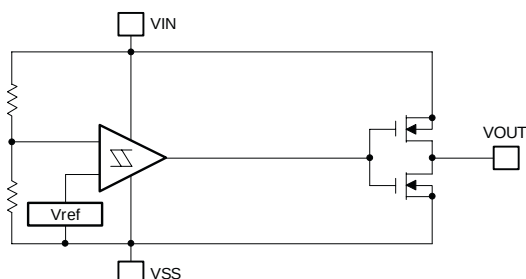
2-6. Voltage Detector

1) General description

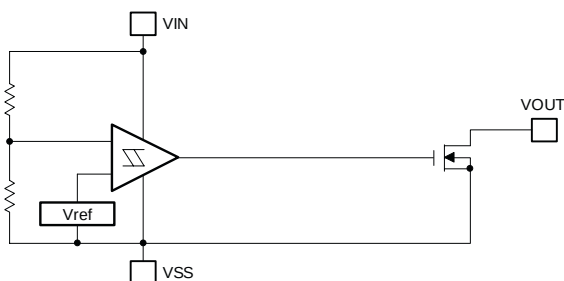
The XC61A Series is a voltage detector with high precision and low current consumption that has been achieved by using CMOS process and laser trimming technology. It consists of high-precision and low current consumption reference voltage source, a comparator, hysteresis circuit, and an output driver circuit. The detection voltage attains high precision and minimum temperature drift. Two types of output circuits, N-ch open drain and CMOS, are available. All these functions in a mini-mold package attains space saving and high-density mounting, thus making it best suited to hand held or compact equipment.

2) Block diagram

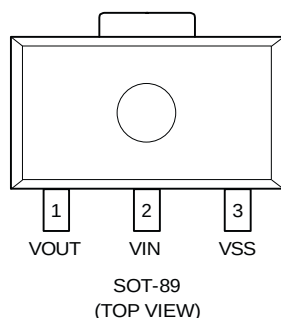
(1) CMOS output



(2) Nch open drain output



3) Pin configurations



4) Pin function

PIN	FUNCTION
V _{IN}	INPUT TERMINAL
V _{SS}	GND TERMINAL
V _{OUT}	OUTPUT TERMINAL

3. Memory mapping

CHIP SELECT	DESCRIPTION	SIZE
/CE1	FLASH ROM (PROGRAM DATA)	16Mbit
/CE2	FLASH ROM (for DATA, OZ/ZQ-750 only)	8Mbit
/CE3	—	—
/CE4	—	—
/CE5d, /CE RAMd	SRAM	1Mbit
/CE6	SRAM (OZ/ZQ-750 only)	1Mbit
/CE7	—	—
/CE8	—	—

4. Power circuit

- Explanation of the power source name

	Normal
VCC5.0V System LSI power	5.0V
V _{BAT} . Battery voltage	3.0V
GND reference voltage	0V

- Supply of the operating power (LR6 alkaline battery x 2)
The operating voltage (main battery) of 3V (1.5V x 2) is boosted to 5.0V by a DC/DC convertor to supply the 5.0V system power (VCC).
- The 3V system power (V_{BAT}: Battery voltage) is supplied from main batteries directly.

5. Low battery detection

The main battery voltage is detected in two levels. When the voltage falls to the caution level, "BATT" symbol lights up. When the voltage falls to the fatal level, the power is forcibly turned off.

		Max.	Typ.	Min.
Main Batt.	Caution	2.10V	2.25V	2.40V
	Fatal	1.70V	1.85V	2.00V

6. Current consumption check

Measurement conditions

- Power voltage: Main battery 3.0V (Battery terminal)
- Checker: Do not install a checker which consumes power. (Example: 4pin checker)

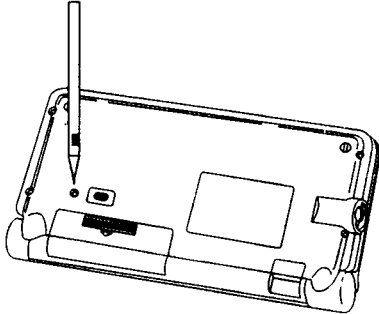
Specification

- Current consumption during display of the diag menu: 12mA
- Current consumption during OFF: OZ-730, ZQ-700 80μA
OZ/ZQ-750 120μA

3. NOTE FOR SERVICING

1. Resetting the Organizer

A strong impact, exposure to an electrical field, or other unusual conditions may render the unit inoperative, and pressing the keys will have no effect. If this occurs, you will have to press the RESET switch at the bottom of the unit using a pen or similar object to be able to continue to use the unit.



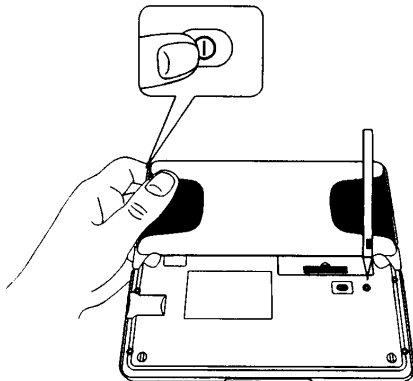
- * A condition that makes the unit inoperative may erase some or all of the data stored in memory.
- * Do not use anything breakable, anything with a sharp tip or anything that might break to press the RESET switch.

In case that the Organizer does not work properly after reset, you can remove the batteries and insert the batteries several seconds later. Then press **Ⓜ** to open the Organizer.

1-1. All reset operation

If the unit still fails to function after it has been reset using the procedure above, you will have to reset it using a slightly more complicated procedure:

1. While pressing and holding **Ⓜ**, press and release the RESET switch.



A message appears.

2. Release **Ⓜ**.
3. Press **ESC**.

The built-in clock is reset.

- * Do not press **ENTER** in step 3. Doing so will delete all data in the unit.

2. Battery Replacement

2-1. General guidelines

The Organizer uses the following type of battery:

Use	Type	Size/Model	Qty
General operation	Alkaline batteries	LR6 (size "AA")	2

There are some extremely important points to remember when installing new batteries:

- * Replace the two operating batteries at the same time with new batteries of the same type.

Caution:

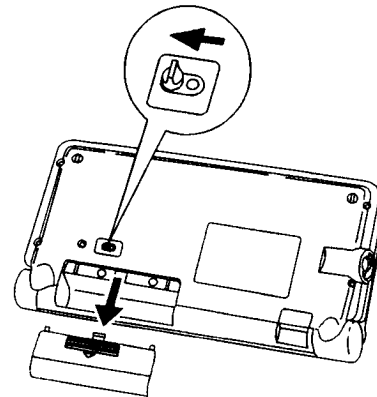
- * Keep batteries out of the reach of children.
- * Remove batteries from the unit when they become weak or when the unit will not be used for a long period of time. Leaving weak batteries in the unit may cause battery leakage and damage from corrosion.
- * Do not dispose of batteries in fire as they may explode.

2-2. Replacing the operating batteries

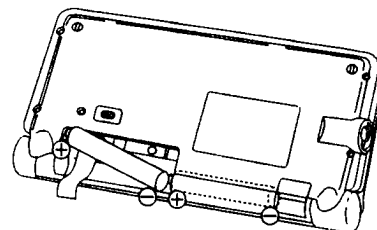
The Organizer detects two low battery levels which are warning and fail. When the battery is in warning level, an alert message appears on the screen. In fatal level, the Organizer will turn off automatically without indication.

If the alert message is shown, replace the batteries immediately.

1. Turn off the Organizer.
2. Set the battery replacement switch on the bottom of the Organizer to REPLACE BATTERIES (a red dot will appear).
3. Slide off the operating batteries cover.



4. Remove the old batteries by pulling the ribbon tab.
5. Insert the two new batteries on top of the ribbon tab, taking care to position them correctly according to the plus (+) and minus (-) terminals, as shown below.



6. Replace the cover.
7. Set the battery replacement switch to NORMAL OPERATION.
8. Turn on the Organizer and set the clock.

If nothing happens when you press **Ⓜ**:

- * Setting the battery replacement switch to REPLACE BATTERIES shuts off power to the unit. Check that the battery replacement switch is set to NORMAL OPERATION.
- * Repeat the above battery replacement procedure step by step.

3. Using the data transfer function

Your Organizer is a powerful pocket-size computer with built-in functions that make it possible to accomplish a broad range of tasks. It has the flexibility to connect to other Organizers and transfer data to desktop computers using data transfer facilities, which are accessed through the application menu. This chapter provides descriptions and examples to get you up and running quickly with these powerful features.

Transferring Data

There are several ways to transfer information—whether specific entries or entire files—between OZ/ZQ-750 and other information processing devices, including personal computers. In this way, you can back up your information to guard against losing it, or copy information so that you or someone else can work with it on another device. A summary of transfer devices, transferable data, and tasks to which a transfer device is most suited is provided in the table below.

Transfer device	Transferable data and direction of transfer (→: sent from OZ/ZQ-750 ←: received in OZ/ZQ-750)	Peripherals required	Most suitable task
Another OZ/ZQ-750 Organizers	Single entries, entire files/applications → ←	IrDA transfer	Exchanging data with other OZ/ZQ-750 Organizers
Personal Computer	→ ←	Docking Module	PC synchronization

- * Only OZ/ZQ-750 has the function of infrared transfer.
- * Depending upon the SHARP or third-party software you are using, some features and capabilities may vary.
- * The Auto power off function is disabled in all transfer modes.

Transferring between two OZ/ZQ-750 Organizers

Data can be transferred directly between two OZ/ZQ-750 Organizers via the infrared port. Single entries or all the entries in an application can be transferred in the Schedule, Memo, and Tel applications.

The transfer procedure differs according to whether single entries or complete files are to be transferred.

- * Press **(⏏)** at any time to interrupt and cancel a transfer.
- * After a transfer, the display returns to the application being used before the transfer procedure was begun.

Transferring single entry

Single entry can be transferred in TEL, SCHEDULE and MEMO.

1. Turn on both Organizers.
2. On the sending Organizer, select the entry you want to send.
3. On the receiving Organizer, press **(MENU)** to open the application menu and select UNIT TO UNIT TRANSFER then press **(ENTER)**.

A submenu opens.



4. Select GET DATA (APPEND) then press **(ENTER)**.
5. On the sending Organizer, open the application menu and select UNIT TO UNIT TRANSFER then press **(ENTER)**.
Select SEND SELECTED ENTRY then press **(ENTER)**.

The selected entry is transferred and appended to data in the appropriate application.

Transferring all entries in an application

All entries in Schedule, Memo and Tel can be transferred.

1. Turn on both Organizers.
2. Open the same application on each Organizer.
3. On the receiving Organizer, press **(MENU)** to open the application menu and select UNIT TO UNIT TRANSFER then press **(ENTER)**.
4. Select GET DATA (APPEND) then press **(ENTER)**.
5. On the sending Organizer, press **(MENU)** to open the application menu and select UNIT TO UNIT TRANSFER then press **(ENTER)**.

A submenu opens.

6. Select SEND ALL IN THIS VIEW.

All entries in the application are transferred.

("SEND ALL IN THIS VIEW" does not appear in the Schedule application.)

Exchanging Information with a Personal Computer

Using included Organizer Link software (Day-Timer Organizer[®] SHARP Edition) and cable (Docking Module), you can exchange data with a personal computer. This makes it possible, for example, to use the unit when outside your home or office, then later transfer the data you have entered on the Organizer to your desktop computer.

To setup the Organizer for use with the Organizer Link:

1. Make sure the unit is turned off.
2. For PC Interface cable transfer, plug the Organizer into the Docking Module. (See the "Quick Start Guide" for details.)
3. Plug the cable into the jack on the OZ/ZQ-750 and into the PC's serial port (e.g. COM1)
4. Turn on OZ/ZQ-750, press **(2nd)** **(MENU)** to activate the PC-LINK.



Your Organizer is now ready to transfer data. Consult the Day-timer Organizer[®] SHARP Edition HELP file regarding subsequent transfer procedures.

Press **(⏏)** at any time to exit the PC-Link mode. If you leave the Organizer in PC Link mode, more power is consumed from the batteries than usual, and the auto power off function does not work. To conserve battery power, always press **(⏏)** to leave the PC Link mode as soon as you have finished transferring data.

4. Concerning the internal user FLASH-ROM data.

In the OZ/ZQ-700 series, all of the registered user's data is stored in the FLASH-ROM memory, and is therefore stored even if there is no power supplied to the machine.

However, the FLASH-ROM memory is cleared during the following operations, and caution should be exercised concerning data storage management.

(Operations which will erase the user data storage memory)

- 1) When the ALL RESET function is carried out.
- 2) When the following functions are carried out from the Diag Check.
 - (1) "5. FINAL check" (page 1/5)
 - (2) "5. AGING" (page 2/5)
 - (3) "1. FLASH ROM CLEAR" (page 5/5)

5. FLASH ROM SERVICE WRITING/CHECKING PROCEDURES

The procedures for writing into the FLASH ROM is the OZ/ZQ-700 series.

Servicing for the OZ/ZQ-700 series is performed in the following cases:

- 1) When the Main PWB unit is replaced.
- 2) When the FLASH ROM is replaced.
- 3) When the following functions are carried out from the Diag Check.
 - (1) "5. FINAL check" (page 1/5)
 - (2) "5. AGING" (page 2/5)
 - (3) "1. FLASH ROM CLEAR" (page 5/5)

1) Necessary devices

1. PC (Windows 95/98 or Windows NT 4.0)
2. Docking module
3. RE-PROGRAM software for PC (EO7RPRxxx.exe)

"xxx" shows the version number. The software on the machine side is included in this software.

When the version of the software on the machine side is upgraded, this software is also upgraded.

2) Operating procedure

1. Connect the machine and the PC's COM port with the docking module.
2. Copy the RE-PROGRAM software (EO7RPRxxx.exe) for PC into a directory in the HDD.
3. Start the program copied in procedure 3.
4. If necessary, set the COM port for PC software. (It is normally operated when detected.)
5. Select [ON] - [2nd] - [MAIN] to bring the machine into the PC-Link mode.
6. Press the Update button of the program to start RE-PROGRAM.

PC side: The window indicating the progress status is shown.

Machine side: A beep sounds and the machine enters the PC-Link mode to be ready for reception. The display shows;

Now updating!

Please wait
7. Re-program is completed in about 6 min.

PC side: "The system update was successful." is displayed.

Machine side: A beep keeps sounding periodically. The display shows;

Re Program

Ok

8. Press the OK button on the PC message to complete the program.
9. While pressing [ESC] and [D] on the machine side, press the Reset button and release [ESC] and [D] to enter the diag. mode. Check the machine model name, the ROM version, and the check sum. The checking procedures are as follows:

1) Model name, ROM version

Check the right lower section of the first page (Page 1 of 5) of the diag. menu.

Ex. Model: EO-7 (EO-7H for the OZ/ZQ-750)

Page 1 of 5

ROM Ver. V1.1

2) Check sum

Press [V] key once in the first page (Page 1 of 5) of the diag. menu to go to the second page of the diag. menu (page 2 of 55). Press [2] and select "ROM CHECK." After completion, a beep sounds.

If the check sum is OK, the check sum and "ROM CHECK OK" are displayed on the display after completion. After that, check the check sum value. In case of an error, two different check sum values and "ROM CHECK FAIL" are displayed.

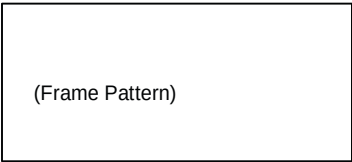
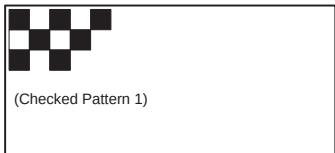
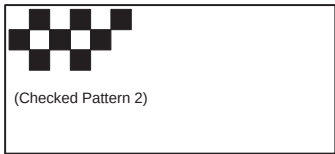
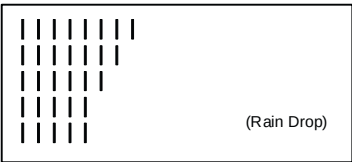
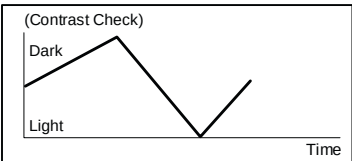
Perform the check procedure again.

10. After completion of the above, keep pressing [POWER] key and press the reset key. The display of initializing execution check is shown. Press [ENTER] key to initialize the machine.

[Note]

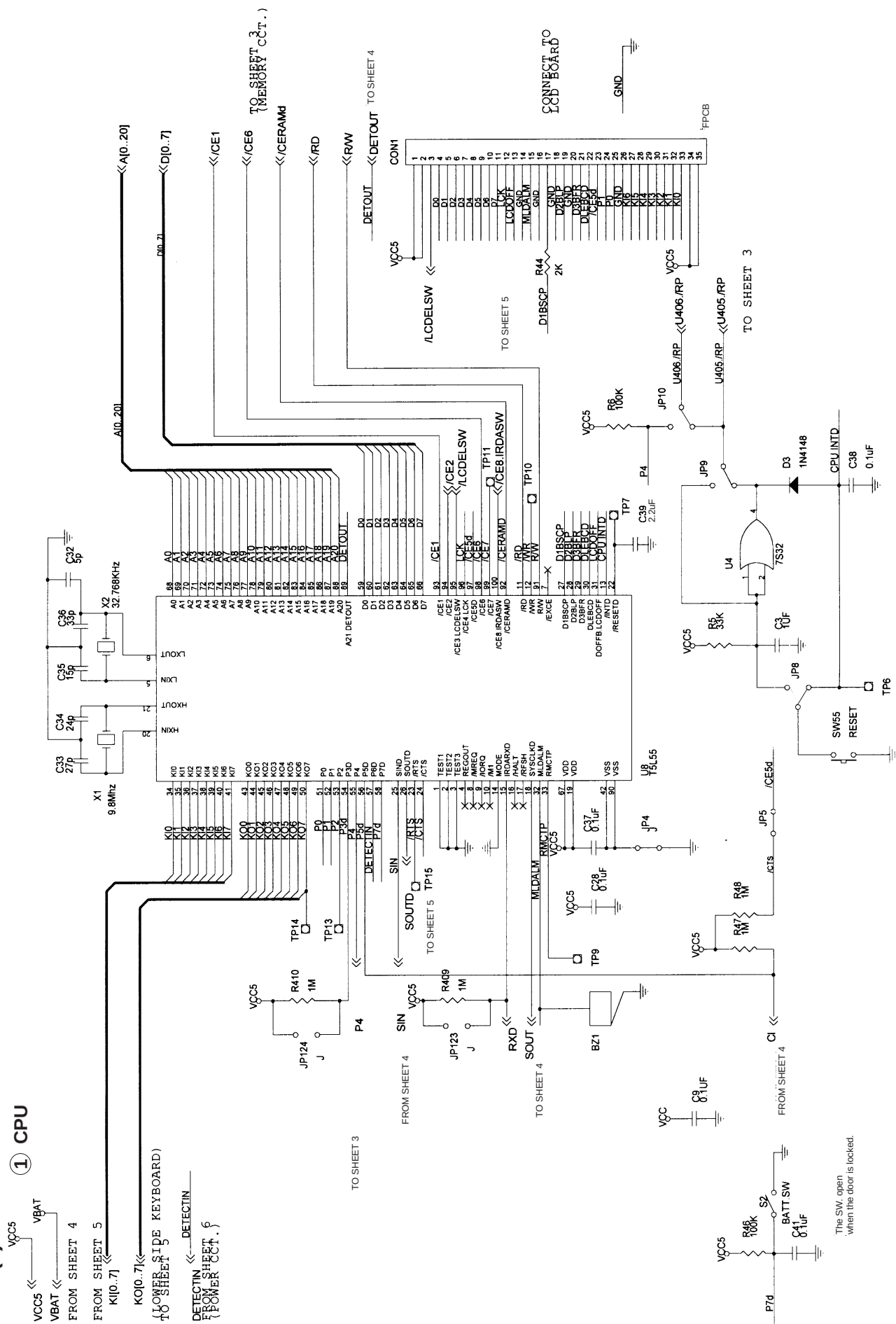
- If the check is failed, perform the following procedure instead of procedure 5.
While pressing [SHIFT] + [R], press [RESET] to bring the machine into the PROGRAM mode and perform procedures 3 and later again.
- If necessary, back up the data before RE-PROGRAM, and restore them after completion of RE=PROGRAM.

4. EXPLANATION OF DIAGNOSTICS AND CHECK ITEMS

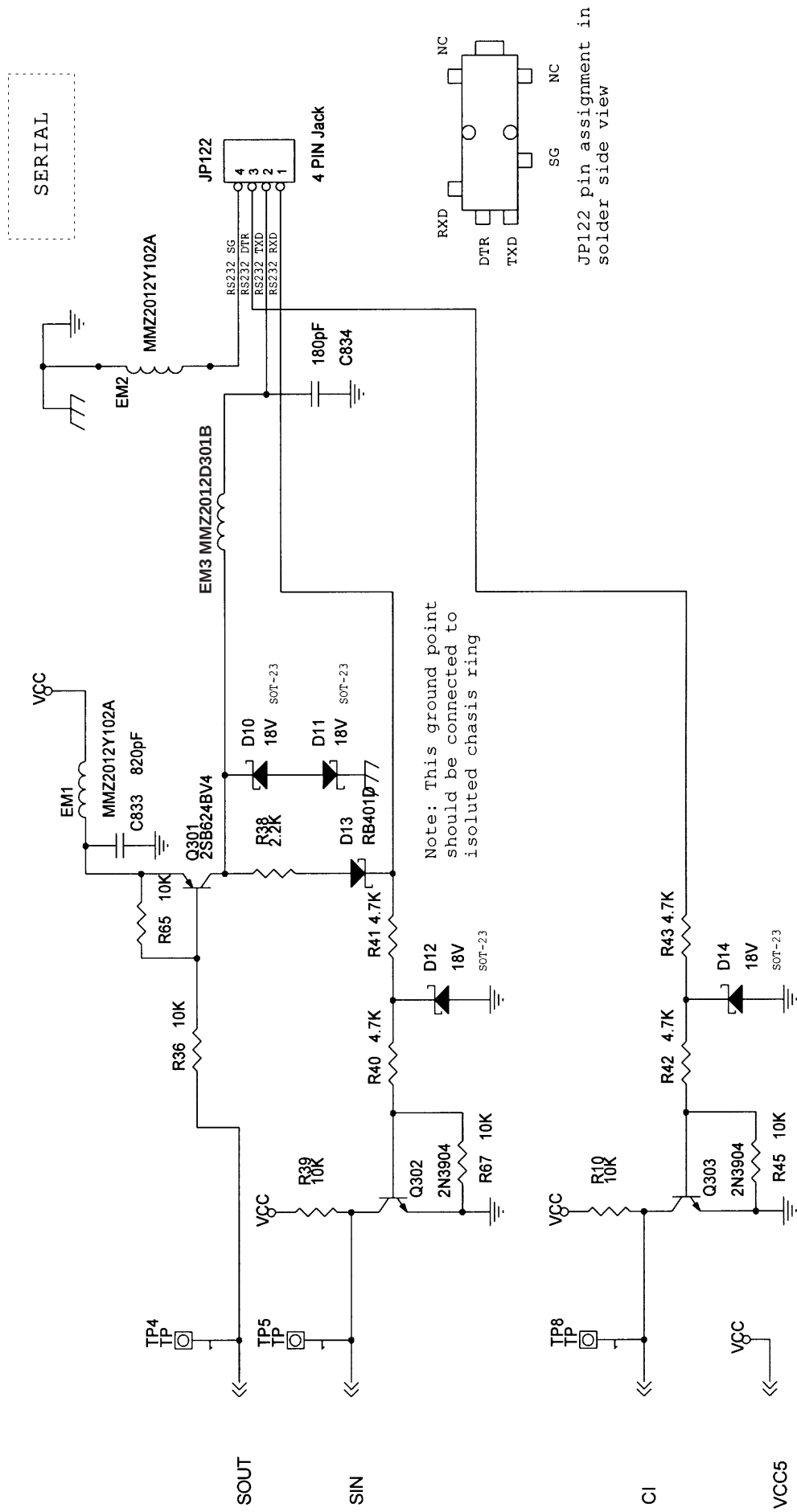
NO.	CHECK ITEM	CHECK METHOD	DISPLAY	CRITERIA or NOTE
1	Start	Power SW ON Reset while Pressing ESC+D	(Diag Menu, Page 1 of 5) 1. LCD CHECK 2. PCB CHECK 3. KEY CHECK 4. BACKLIGHT CHECK 5. FINAL CHECK 6. LOW BATT. CHECK 7. H SEND CHECK 8. UART ECHO CHECK ROM Ver. Vx,x	
2	LCD Check	Push 1 key		Displayed Frame Pattern
		Push ENTER key		Displayed Checked Pattern 1
		Push ENTER key		Displayed Checked Pattern 2
		Push ENTER key		Displayed Rain Drop Pattern 2 No Rain Drop
		Push ENTER key		Contrast changes smoothly to black out, fades out, then returns to the initial level.
3	PCB Check	Push `2' key Push ENTER	SRAM CHECK..... ROM CHECK..... ALARM TONE TEST.....	Test OK should be seen, or an error alarm tone would be heard.,
4	KEY Check	Push `3' key Push all key	45 (hex) different characters and the no. of keys are displayed.	When push a key, one of corresponding characters will be disappeared and the no. of key will be decrement by one. Keyboard will be OK only if all characters had been disappeared after all keys had been pressed.
5	Backlight check	Push `4' key	BackLight is on & no indication	on time...30sec
6	Low Battery Check	Push `6' key Drop the operating Volt. 2.5V Drop the operating Volt. 2.1V Drop the operating Volt. 1.7V	LOW BATTERY CHECK LOW BATTERY CHECK (no change) CAUTION! IT IS LOW BATTERY. FATAL WARNING. IT IS NO BATTERY	
7	H Send Check	Connect the OZ/ZQ-700 series unit to PC Push `7'	HHHHH HHHHH : :	Press CANCEL to exit Check `H' displaying to PC Monitor
8	Uart Echo Check	Connect the OZ/ZQ-700 series unit to PC & run rest Cradle PC program.	UART CHECKING Press CANCEL to quit	Test OK should be seen.

5. CIRCUIT DIAGRAM AND PARTS LAYOUT

(1) Main PWB Circuit

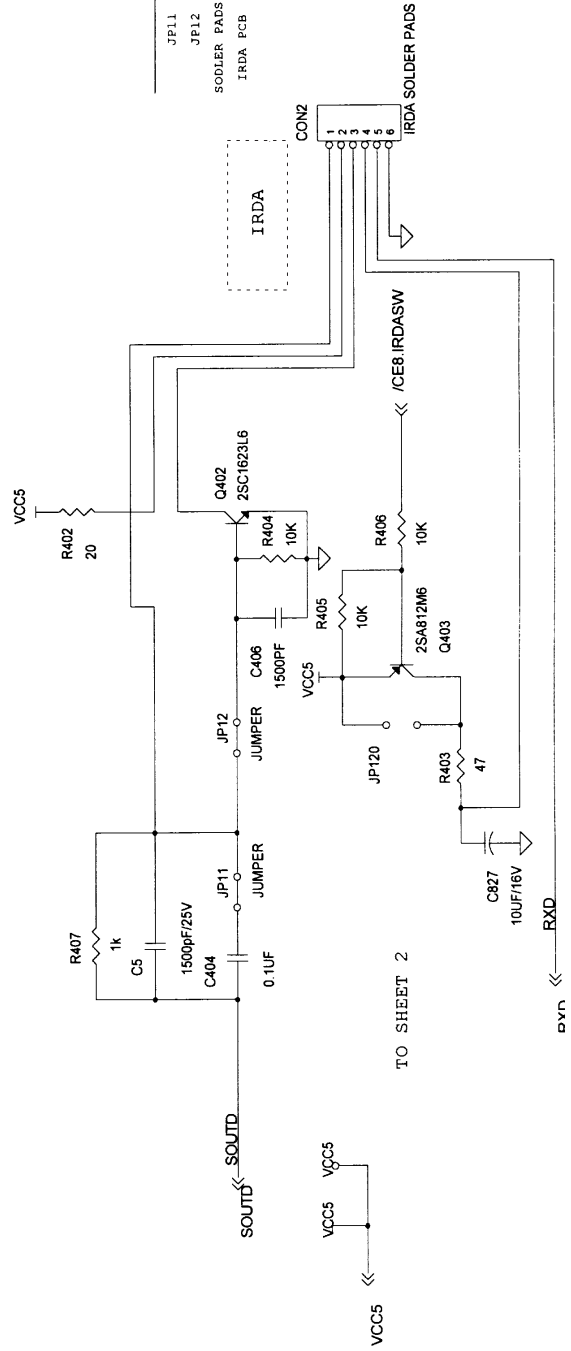
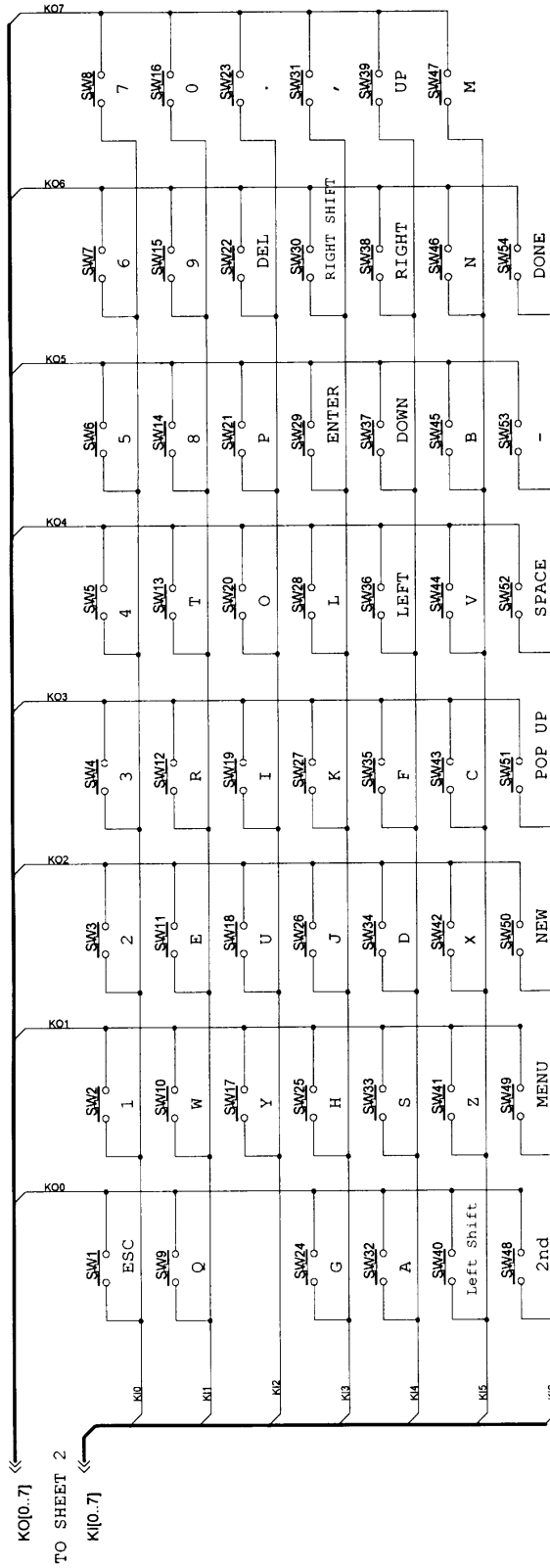




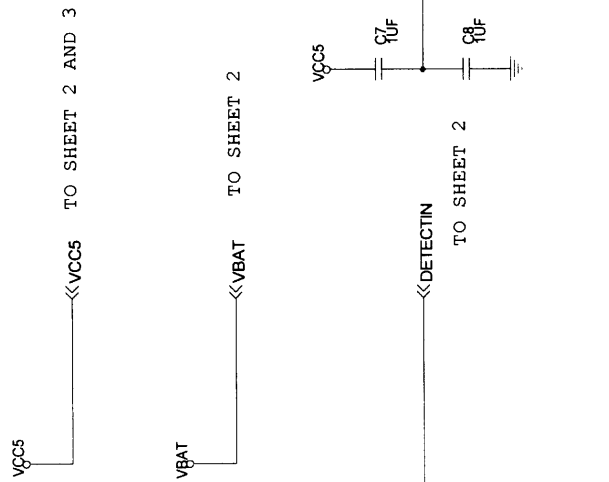
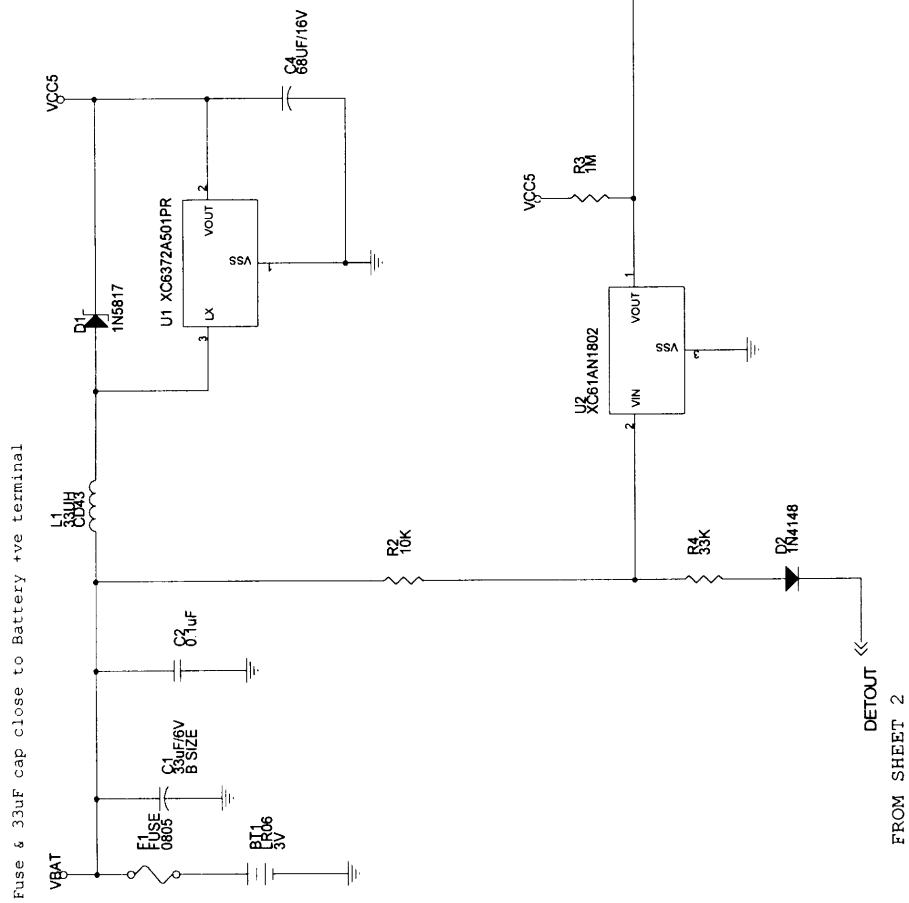


④ Key, IrDA

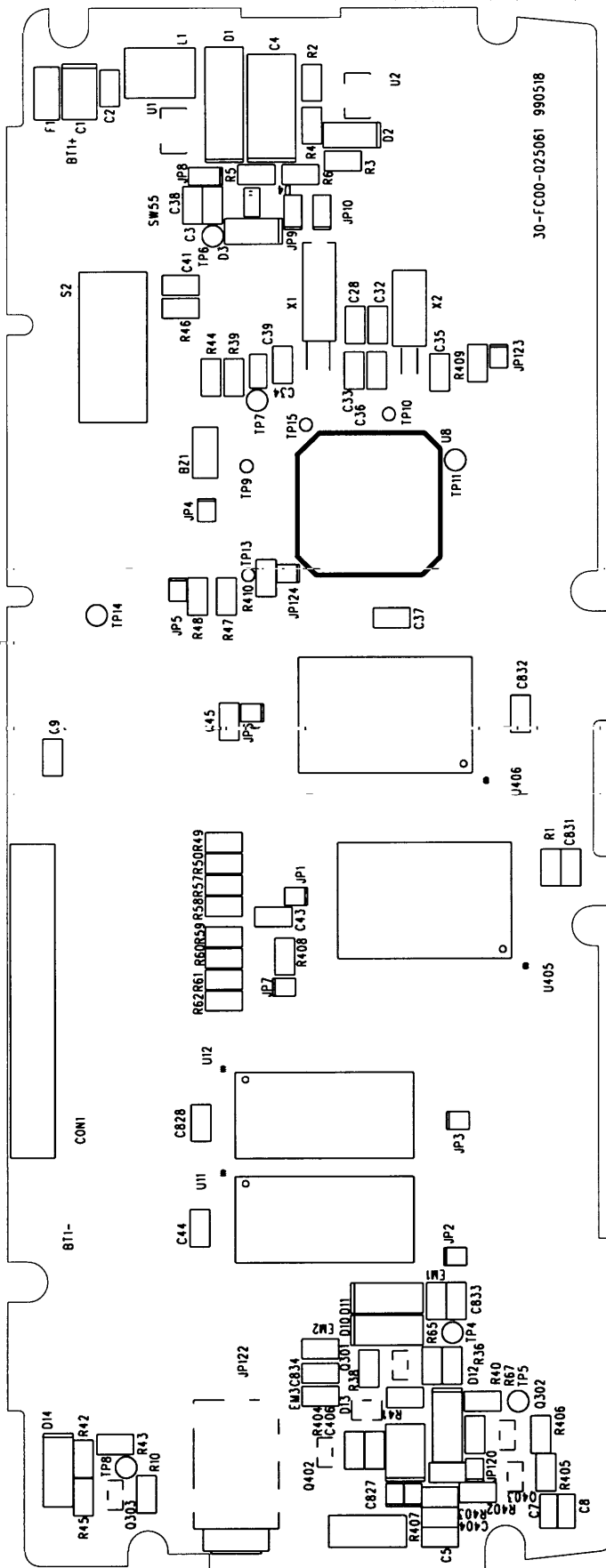
KEYBOARD



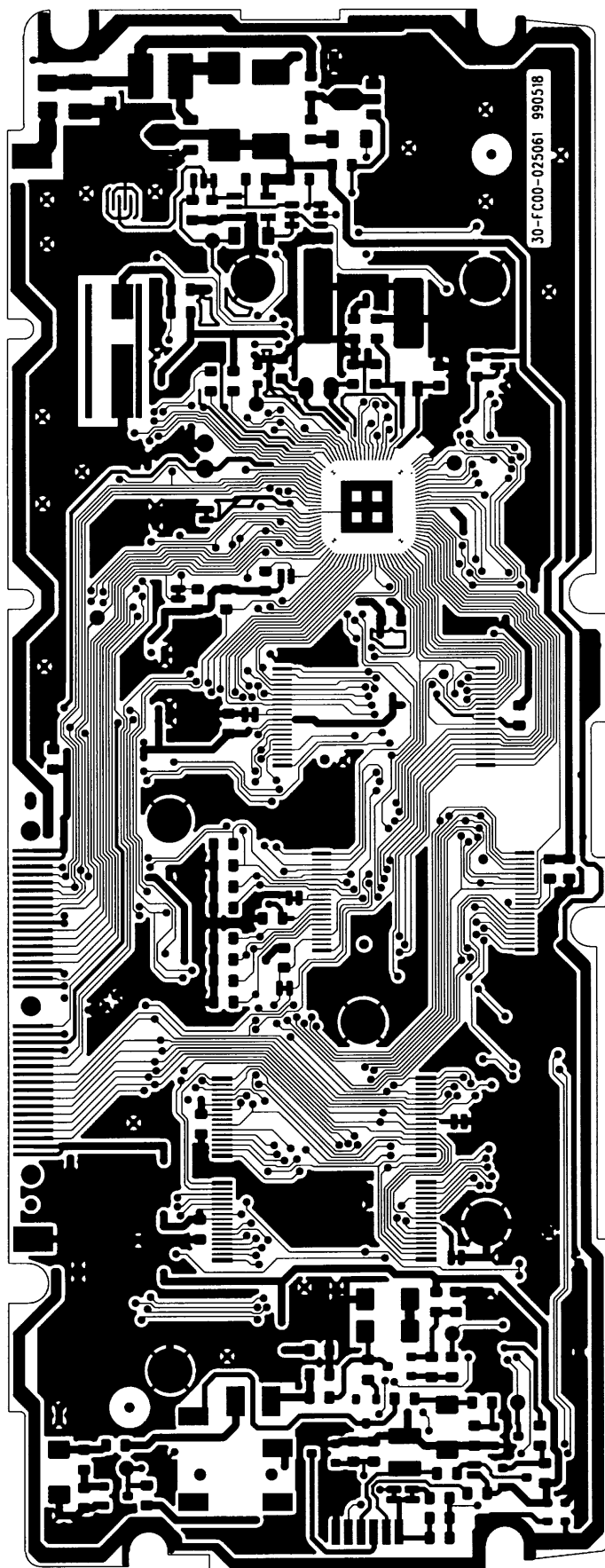
⑤ Power



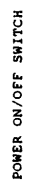
(2) Main PWB parts layout



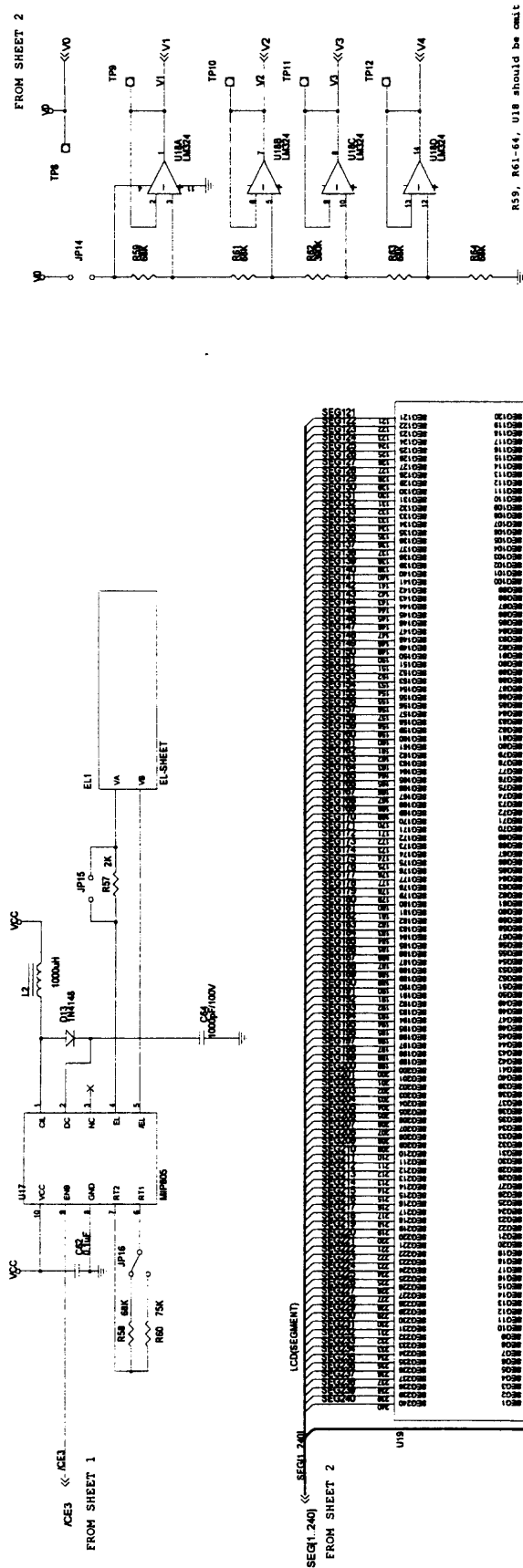
(3) Main PWB pattern layout



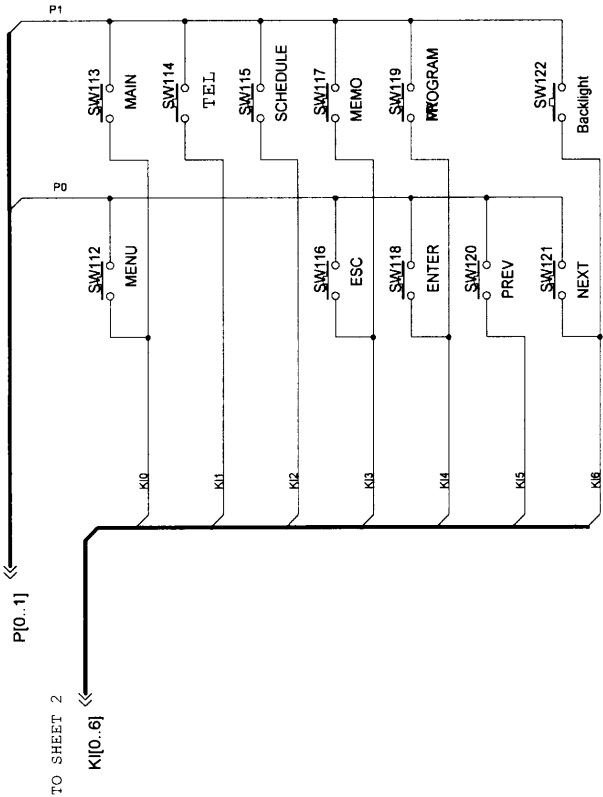
① LCD driver



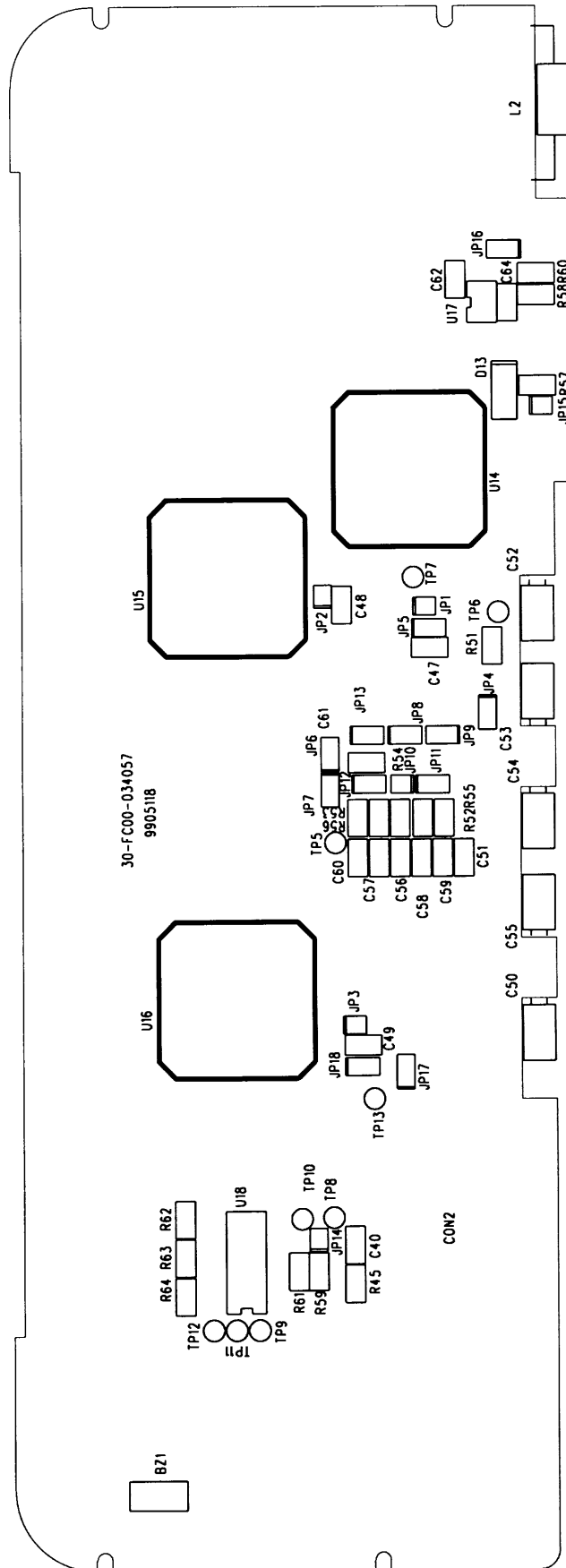
② EL power



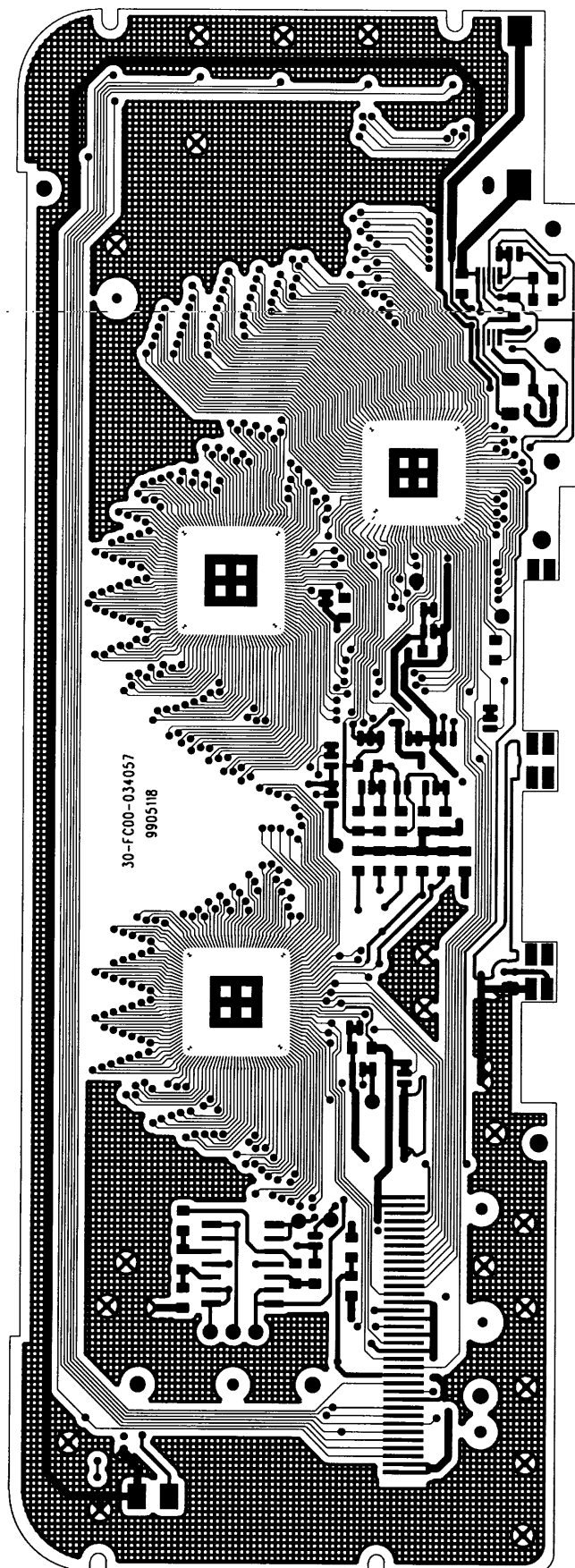
③ Key



(5) LCD PWB parts layout

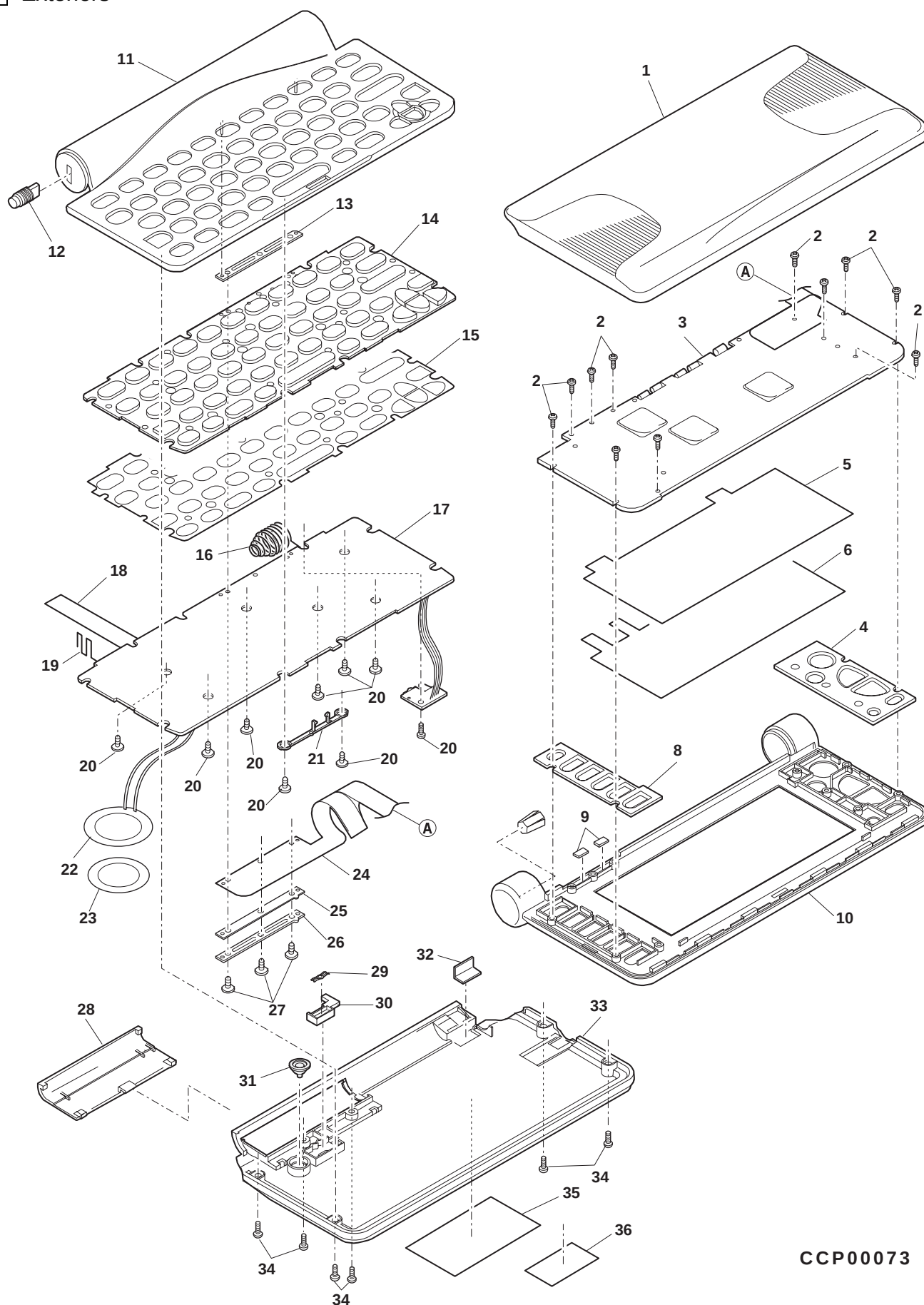


(6) LCD PWB pattern layout



■ Parts guide

1 Exteriors



CCP00073

1 Exteriors

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	0LY73FC000110	AQ	N	D	Upper top cabinet A (OZ) [OZ-730PC/750PC]
	0LY73FC000610	AQ	N	D	Upper top cabinet B (ZQ) [ZQ-700PC/750PC]
2	0LY5320140011	AC	N	C	Screw-1 (1.4-3) [LCD PWB]
3	0LY97FC000005	BR	N	E	LCD unit (LCD+PWB+FPC)
4	0LY75FC000310	AK	N	C	LCD keypad (2)(Right/PIM)
5	0LY95EW000210	AD	N	C	LCD support sheet
6	0LY28EW000111	AY	N	B	Electro luminescence light
8	0LY75FC000210	AG	N	C	LCD keypad (1)(Left/Function)
9	0LY78EN000310	AC		C	Rubber pad (EL)
10	0LY73FC001010	AP	N	D	Upper bottom cabinet A [OZ-730PC]
	0LY73FC000210	AP	N	D	Upper bottom cabinet C [OZ-750PC]
	0LY73FC001110	AP	N	D	Upper bottom cabinet B [ZQ-700PC]
	0LY73FC000910	AP	N	D	Upper bottom cabinet D [ZQ-750PC]
11	0LY73FC000310	AR	N	D	Lower top cabinet A (OZ) [OZ-730PC/750PC]
	0LY73FC000810	AR	N	D	Lower top cabinet B (ZQ) [ZQ-700PC/750PC]
12	0LY97EW000001	AN		C	Damper
13	0LY50EW000310	AF		C	FPC angle(1)(TAP)
14	0LY75FC000110	AU	N	C	Main keypad
15	0LY95FC000110	AN	N	C	Keyboard shield plate
16	0LY50EW000210	AE		C	Battery contact d
17	0LY97FC000006	BR	N	E	Main PWB unit (OZ-730/ZQ-700) [OZ-730PC,ZQ-700PC]
	0LY97FC000007	BV	N	E	Main PWB unit (IR)(OZ/ZQ-750) [OZ-750PC,ZQ-750PC]
18	0LY95EW000110	AF		D	Battery ribbon
19	0LY50EW000110	AD		C	Battery contact c
20	0LY5320170511	AC		C	Screw (1.7×2.2) [MAIN PWB]
21	0LY70FC000810	AE	N	C	Cover lock
22	0LY2701200010	AD		B	Buzzer
23	0LY8132003410	AB		D	Buzzer tape
24	0LY30EW000610	AU	N	C	FPC
25	0LY78EF000310	AC		C	FPC rubber pad
26	0LY50EF000510	AC		C	FPC bracket-2
27	0LY5420170011	AB		C	Screw (1.7×4) [FPC BRACKET]
28	0LY73FC000510	AE	N	D	Main battery door
29	0LY50EF000610	AC		C	Battery contact plate
30	0LY70FC000710	AE	N	C	Battery door lock
31	0LY75FC000410	AC	N	C	Reset keypad
32	0LY70FC000610	AE	N	D	IR cover [OZ-750PC,ZQ-750PC]
33	0LY73FC000710	AP	N	D	Lower bottom cabinet A [OZ-730PC,ZQ-700PC]
	0LY73FC000410	AP	N	D	Lower bottom cabinet B [OZ-750PC,ZQ-750PC]
34	0LY5320170631	AC	N	C	Screw-2 (1.7-5) [LOWER CAB.]
35	0LY80FC000110	AE	N	D	Model label A (OZ730) [OZ-730PC]
	0LY80FC000310	AE	N	D	Model label D (OZ750) [OZ-750PC]
	0LY80FC000210	AE	N	D	Model label B (ZQ700) [ZQ-700PC]
	0LY80FC000410	AE	N	D	Model label E (ZQ750) [ZQ-750PC]
36	0LY80FC000510	AE	N	D	Noise label A (SECL) [ZQ-700PC/750PC:SECL]

2 Accessories

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	0LY85FC000110	AR	N	D	Manual(ENGLISH) A (OZ) [OZ-730PC/750PC]
	0LY85FC000210	AR	N	D	Manual(ENGLISH) B (ZQ) [ZQ-700PC/750PC]
	0LY85FC000310	AR	N	D	Manual(FRENCH) C [ZQ-700PC/750PC:SECL]
2	0LY85FC000410	AH	N	D	Quick start guide A (E/S) [OZ-730PC/750PC]
	0LY85FC000510	AH	N	D	Quick start guide B (E/F) [ZQ-700PC/750PC]
3	0LY85EF000120	AE	N	D	Warranty card A (SECL) [ZQ-700PC/750PC:SECL]
	0LY85EF000210	AE	N	D	Warranty card B (SCA) [ZQ-700PC/750PC:SCA,SCNZ]
	0LY85EF000330	AE	N	D	Warranty card C (SEEG) [ZQ-700PC/750PC:SEEG(E)]
4	0LY3709040100	AW	N	C	PC cable
5	0LY28FC000210	AT	N	D	CD-ROM (A) [OZ-730PC/750PC]
	0LY28FC000110	AT	N	D	CD-ROM (B) [ZQ-700PC/750PC]
6	0LY86EN000610	AH		D	CD ROM case (A)

3 Main PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	VCKYTV1EF104Z	AA		C	Capacitor (25WV 0.10μF) (OZ-730PC,ZQ-700PC)[C2,9,28,37,38,41,43,44,831]
	VCKYTV1EF104Z	AA		C	Capacitor (25WV 0.10μF) (OZ-750PC,ZQ-750PC) [C2,9,28,37,38,41,43,44,45,404,828,831,832]
2	VHDLRS4148/-1	AB		B	Diode (1N4148) [D2,3]
3	VRS-TS2AD472J	AA		C	Resistor (1/10W 4.7KΩ ±5%) [R40,41,42,43]
4	VRS-TS2AD202J	AA		C	Resistor (1/10W 2KΩ ±5%) [R44]
5	VRS-TS2AD103J	AA		C	Resistor (1/10W 10KΩ ±5%) (OZ-730PC,ZQ-700PC)[R2,10,36,39,45,65,67]
	VRS-TS2AD103J	AA		C	Resistor (1/10W 10KΩ ±5%) (OZ-750PC,ZQ-750PC) [R2,10,36,39,45,65,67,404,405,406]
6	VRS-TS2AD333J	AA		C	Resistor (1/10W 33KΩ ±5%) [R4,5,408]
7	VRS-TS2AD104J	AA		C	Resistor (1/10W 100KΩ ±5%) [R6,46]
8	VRS-TS2AD105J	AA		C	Resistor (1/10W 1MΩ ±5%) [R1,3,47,48,49,50,57,58,59,60,61,62,409,410]
9	VCCCTV1HH330J	AA		C	Capacitor (50WV 33pF) [C36]
10	VCCCTV1HH150J	AA		C	Capacitor (50WV 15PF) [C35]
11	VCCCTV1HH240J	AA		C	Capacitor (50WV 24pF) [C34]
12	VCCCTV1HH270J	AC		C	Capacitor (50WV 27pF) [C33]
13	OLY1176860010	AN		C	T.Capacitor (68μF 16V) [C4]
14	OLY1173360050	AG		C	T. Capacitor (33μF 6.3V) [C1]
15	OLY2321200191	AH		B	Volt detect (1.8V) [U2]
16	OLY2307400241	AT		B	Convertor DC-DC (5.0V) [U1]
17	OLY2543330011	AL		C	Inductor (33μH) [L1]
18	OLY1720100070	AF		B	Diode rectifier (1N5817) [D1]
19	OLY1475920021	BB	N	B	Flash memory (8Mb) [U406]
20	OLY1476020011	BF	N	B	Flash memory (16Mb) (OZ-750PC,ZQ-750PC)[U405]
21	OLY1440460091	AY	N	B	SRAM (1Mb 5V)(TC551001CFT) (OZ-730PC,ZQ-700PC)[U11]
	OLY1440460091	AY	N	B	SRAM (1Mb 5V)(TC551001CFT) (OZ-750PC,ZQ-750PC)[U11,12]
22	OLY1610730011	AL		B	X'tal (7.37280MHz (P)) [X1]
23	OLY1613220022	AH		B	X'tal (32.7680KHz (P)) [X2]
24	OLY2141810010	AH		A	Fuse (700mA 50V) [F1]
25	VRS-TS2AD222J	AA		C	Resistor (1/10W 2.2KΩ ±5%) [R38]
26	OLY1101050080	AC		C	Capacitor (1.0μF 10V) [C3,7,8,39]
27	OLY1311120040	AL	N	C	Jack (4p) [JP122]
28	OLY1710200150	AG	N	B	Diode (RB401D) [D13]
29	OLY1741800020	AD	N	B	Zener diode (18V) [D10,11,12,14]
30	OLY3601100010	AD	N	B	Transistor (2N3094) [Q302,303]
31	OLY3602070011	AD	N	B	Transistor (2SB624BV4) [Q301]
32	OLY3602070021	AC		B	Transistor (2SA812M6) (OZ-750PC,ZQ-750PC)[Q403]
33	OLY3601070011	AC		B	Transistor (2SC1623L6) (OZ-750PC,ZQ-750PC)[Q402]
34	OLY1788800010	AR		B	IR em diode (GL382) (OZ-750PC,ZQ-750PC)[D402]
35	OLY1764000020	AY		B	Photo transistor (IS1U21) (OZ-750PC,ZQ-750PC)[U404]
36	OLY1171060040	AH		C	T.Capacitor (10μF 16V) (OZ-750PC,ZQ-750PC)[C827]
37	OLY2051020031	AG	N	C	EMI filter (MMZ2012S102A) [EM1,2]
38	RCILZ1053YCZZ	AD		C	Coil (MZ2125D301B) [EM3]
39	VCCCTV1HH821J	AB		C	Capacitor (50WV 820PF) [C833]
40	VCCCTV1HH181J	AA		C	Capacitor (50WV 180pF) [C834]
41	OLY2305021021	AH	N	B	OR Gate IC (7S32) [U4]
42	VCCCTV1HH152J	AA		C	Capacitor (50WV 1500PF) (OZ-750PC,ZQ-750PC)[C5]
	(Unit)				
901	OLY97FC000006	BR	N	E	Main PWB unit (OZ-730/ZQ-700) [OZ-730PC,ZQ-700PC]
	OLY97FC000007	BV	N	E	Main PWB unit (IR)(OZ/ZQ-750) [OZ-750PC,ZQ-750PC]

4 LCD PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	VCKYTV1EF104Z	AA		C	Capacitor (25WV 0.10μF) [C40,47,48,49,51,56,57,58,59,60,62]
2	VCEAJU1EW335M	AB		C	Capacitor (25WV 3.3μF) [C52,53,54,55]
3	VHDLRS4148/-1	AB		B	Diode (1N4148) [D13]
4	VHiMiP805/-1	AN		B	IC (MIP805) [U17]
5	VRS-TS2AD202J	AA		C	Resistor (1/10W 2KΩ ±5%) [R57]
6	VRS-TS2AD104J	AA		C	Resistor (1/10W 100KΩ ±5%) [R45]
7	VRS-TS2AD335J	AA		C	Resistor (1/10W 3.3MΩ ±5%) [R53]
8	VRS-TS2AD683J	AA		C	Resistor (1/10W 68KΩ ±5%) [R58]
9	OLY1101020100	AC	N	C	Capacitor (1000pF/100V) [C64]
10	VCCCTV1HH471J	AA		C	Capacitor (50WV 470pF) [C61]
11	OLY1111060010	AD		C	E.Capacitor (10μF 16V) [C50]
12	VRS-TS2AD155J	AA		C	Resistor (1/10W 1.5MΩ ±5%) [R52]
13	OLY2541050021	AC		C	Inductor (1000μH) [L2]

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